

大项 1 of 1 -

题目 1 of 30

1 得分

A digestive tube is best defined as \_\_\_\_\_.

- ☐ A. a tube-shaped digestive compartment with either one or two openings
- ☐ B. the compartment in which an animal digests its food
- ☐ C. a digestive compartment that conducts both chemical and mechanical digestion
- ☒ D. a tube-shaped digestive compartment that has two openings and through which food moves in one direction

[重设选项](#)

题目 2 of 30

1 得分

Bile from the liver is stored in the \_\_\_\_\_ before entering the intestine.

- ☐ A. pancreas
- ☒ B. gallbladder
- ☐ C. bile duct
- ☐ D. large intestine

[重设选项](#)

题目 3 of 30

1 得分

Digestion begins in the \_\_\_\_\_.

- ☒ A. oral cavity
- ☐ B. pharynx
- ☐ C. stomach
- ☐ D. esophagus

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Homeostasis \_\_\_\_\_.

- ☐ A. is a pathological condition
- ☐ B. is the way the internal environment influences the external environment
- ☒ C. is the maintenance of a relatively stable internal environment
- ☐ D. is the maintenance of an unchanging internal state

[重设选项](#)

Most nutrient absorption occurs in which part of the digestive system?

- ☒ A. the several meters of the small intestine that come after the duodenum
- ☐ B. stomach
- ☐ C. duodenum
- ☐ D. large intestine

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Reabsorption is the movement of substances from the \_\_\_\_\_ to the \_\_\_\_\_.

- ☐ A. blood... filtrate
- ☐ B. kidney... urinary bladder
- ☒ C. filtrate... blood
- ☐ D. blood... nephron

[重设选项](#)

The basic unit of nervous tissue is the \_\_\_\_\_.

- ☒ A. neuron
- ☐ B. axon
- ☐ C. dendrite
- ☐ D. brain

[重设选项](#)

The four stages of food processing are, in order \_\_\_\_\_.

- ☐ A. ingestion, absorption, elimination, digestion
- ☐ B. ingestion, elimination, digestion, absorption
- ☒ C. ingestion, digestion, absorption, elimination
- ☐ D. digestion, absorption, ingestion, elimination

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The stomach mixes food with the secretions of the stomach wall to form \_\_\_\_\_.

- ☒ A. chyme
- ☐ B. gastric juice
- ☐ C. a food ball
- ☐ D. acid gastrin

[重设选项](#)

大项 1 of 1 -

Which of the following choices lists the organs of the human alimentary canal in the CORRECT order?

- ☒ A. oral cavity, pharynx, esophagus, stomach, small intestine, large intestine
- ☐ B. esophagus, pharynx, stomach, large intestine, small intestine
- ☐ C. oral cavity, esophagus, stomach, large intestine, small intestine
- ☐ D. pharynx, oral cavity, esophagus, stomach, large intestine

[重设选项](#)

大项 1 of 1 -

Which of the following statements apply to freshwater fish?

- ☒ A. They produce dilute urine
- ☐ B. They lose water by osmosis
- ☐ C. The concentration of solutes in their internal fluids is lower than in the surrounding water
- ☐ D. They pump out ions via the gills

[重设选项](#)

Which type of tissue forms an electrical communication system within the body?

☐ A. connective

☒ B. nervous

☐ C. blood

☐ D. muscle

[重设选项](#)

Your metabolic rate depends on \_\_\_\_\_.

I) your age

II) your activity levels

III) genetics

☐ A. I only

☒ B. I, II, and III

☐ C. I and II, but not III

☐ D. II only

[重设选项](#)

After surviving a bottleneck, a population recovers to the point where it consists of as many individuals as it did prior to the bottleneck. Which of the following statements is most likely to apply to this population?

- ☐ A. The postbottleneck population exhibits more genetic variation than the prebottleneck population
- ☒ B. The postbottleneck population exhibits less genetic variation than the prebottleneck population
- ☐ C. The postbottleneck population has less of a chance of going extinct than did the prebottleneck population
- ☐ D. The bottleneck subjected the population to stabilizing selection

[重设选项](#)

大项 1 of 1 -

Where did humans first appear?

- ☐ A. Asia
- ☐ B. South America
- ☐ C. Europe
- ☒ D. Africa

[重设选项](#)

大项 1 of 1 -

Which of the following are homologous structures?  
这里选A不选B

- ☐ A. the forelimb of a dog and the forelimb of a cat
- ☒ B. wings of a butterfly and wings of a sparrow
- ☐ C. the forelimb of a dog and the hindlimb of a cat
- ☐ D. the mouth of a mosquito and the beak of a hummingbird

[重设选项](#)

大项 1 of 1 -

题目 17 of 30

1 得分

Which of the following examples results from disruptive selection?

- ☒ A. Garter snakes with different coloration patterns behave differently when threatened
- ☐ B. There is an increase in antibiotic-resistant strains of bacteria
- ☐ C. There is an increase in the number of different breeds of dog
- ☐ D. The birth weight at which newborn humans are most likely to survive and the average weight of newborn humans are about the same

[重设选项](#)

Which one of the following can create new alleles?

- ☐ A. genetic drift
- ☒ B. mutation
- ☐ C. natural selection
- ☐ D. sexual reproduction

[重设选项](#)

大项 1 of 1 -

题目 19 of 30

1 得分

Large amounts of oxygen gas appeared in Earth's atmosphere about \_\_\_\_\_ years ago

- ☒ A. 2.7 billion
- ☐ B. 4.5 billion
- ☐ C. 1.7 billion
- ☐ D. 200 million

[重设选项](#)

Natural selection can be defined as \_\_\_\_\_.

- ☐ A. a process in which changes in gene frequencies result from evolution
- ☐ B. the production of more offspring than can survive in a given environment
- ☒ C. a process in which organisms with certain inherited traits are more likely to survive and reproduce than individuals with other traits
- ☐ D. the evolution of a population of organisms

[重设选项](#)

Table of Contents

[目录](#)

大项 1 of 1 -

题目 21 of 30

1 得分

The founder effect differs from a population bottleneck in that the founder effect \_\_\_\_\_.

- ☒ A. involves the isolation of a small colony of individuals from a larger population
- ☐ B. can occur only on an oceanic island colony
- ☐ C. is a type of natural selection
- ☐ D. requires a small population

[重设选项](#)

题目 22 of 30

1 得分

HindIII is a restriction enzyme that cuts the DNA sequence AAGCTT between the two A bases. How many times would HindIII cut the following DNA molecule?  
GTAAGCTTCGACAAGCTTGCTGA

- ☐ A. 0 times
- ☐ B. 1 times
- ☒ C. 2 times
- ☐ D. 3 times

[重设选项](#)



Cutting DNA with a particular restriction enzyme produces DNA fragments that can be separated by \_\_\_\_\_.

- ☒ A. gel electrophoresis
- ☐ B. plasmids
- ☐ C. enzymes
- ☐ D. recombinant DNA

[重设选项](#)

FGA is one of the STRs that are used to compare DNA between different people. Why is FGA useful for comparing DNA between different people?

- ☒ A. FGA varies in the number of repeats between different people.
- ☐ B. FGA is only present in some peoples' genomes.
- ☐ C. FGA is present in different places in different peoples' genomes.
- ☐ D. FGA varies in sequence between different people.

[重设选项](#)

题目 25 of 30

1 得分

Genetically modifying human \_\_\_\_\_ cells may directly affect future generations.

- ☐ A. intestinal
- ☐ B. immune
- ☒ C. gametic
- ☐ D. somatic

[重设选项](#)

26 选use bacteria to transfer 那个选项

normal VERSION of genes are transferred to patients who carry a mutated allele

项 1 of 1 -

题目 27 of 30

1 得分

Restriction enzymes are derived from \_\_\_\_\_.

- ☐ A. archaea
- ☐ B. viruses
- ☒ C. bacteria
- ☐ D. eukaryotes

大项 1 of 1 -

题目 28 of 30

1 得分

To find the nucleotide sequence of human chromosomes, chromosomes had to be digested into small fragments and then \_\_\_\_\_.

- ☐ A. fingerprinted
- ☒ B. cloned and sequenced
- ☐ C. centrifuged and electrophoresed
- ☐ D. restricted

[重设选项](#)

大项 1 of 1 -

题目 29 of 30

1 得分

When plasmids are used to produce a desired protein, the \_\_\_\_\_.

- ☐ A. plasmids multiply and produce the protein outside of the bacterium
- ☒ B. desired gene is inserted into the plasmid, and the plasmid is taken up by the bacterium
- ☐ C. bacterial chromosome is genetically engineered, and the plasmid is used to help the bacterium replicate
- ☐ D. bacterial genome and plasmid are inserted into the genome of the cell containing the desired gene

[重设选项](#)

Which of these statements can be logically inferred from the amount of DNA shared by chimpanzees and humans?

- ☐ A. Humans are unique and different from all other life forms.
- ☒ B. Humans and chimpanzees share a relatively recent common ancestor.
- ☐ C. Humans evolved from chimpanzees.
- ☐ D. Humans are a more complex life form than chimpanzees.

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